

Name _____

Atoms-Mass Calculations

Convert the following amounts. Show all work with units. You may use a periodic table.

Remember when converting between atoms and grams you must go through the mole! Your calculations must be two steps!!

$$23.0 \text{ g Na} = \underline{\hspace{1cm}} \text{ atoms Na}$$

$$6.2 \text{ g C} = \underline{\hspace{1cm}} \text{ atoms C}$$

$$4.5 \text{ g Ar} = \underline{\hspace{1cm}} \text{ atoms Ar}$$

$$9.0 \text{ g Li} = \underline{\hspace{1cm}} \text{ atoms Li}$$

$$1.2 \times 10^{24} \text{ atoms O} = \underline{\hspace{1cm}} \text{ g O}$$

$$2.5 \times 10^{23} \text{ atoms K} = \underline{\hspace{1cm}} \text{ g K}$$

$$4.9 \times 10^{23} \text{ atoms F} = \underline{\hspace{1cm}} \text{ g F}$$

$$5.0 \times 10^{25} \text{ atoms B} = \underline{\hspace{1cm}} \text{ g B}$$